ABSTRACT OF THE DISCLOSURE

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A ceramic armor is disclosed in several embodiments. first embodiment, a metal base plate has a metal frame assembled on it having a central opening into which the ceramic material is placed. A cover plate is placed over the frame to enclose the ceramic material on all sides. In a second embodiment, the frame has an open central area that has two crossing walls that define four sub-chambers. Four pieces of ceramic material are placed in the respective sub-chambers and a covering plate is placed over it. In a further embodiment, the frame has a plurality of cavities mechanically formed in it. A ceramic tile or plate is placed in each cavity and a cover plate is placed over the frame. used to encapsulate the ceramic material may, if desired, comprise a Titanium alloy such as Ti-6Al-4V, and the ceramic material may comprise Silicon Carbide, Boron Carbide, Tungsten Carbide, Titanium Diboride or Aluminum Nitride. A hot pressing procedure is carried out on the armor to cause the metal to plastically deform about the encapsulated ceramic material.